



# SERVICE NOTES

First Edition

## TABLE OF CONTENTS

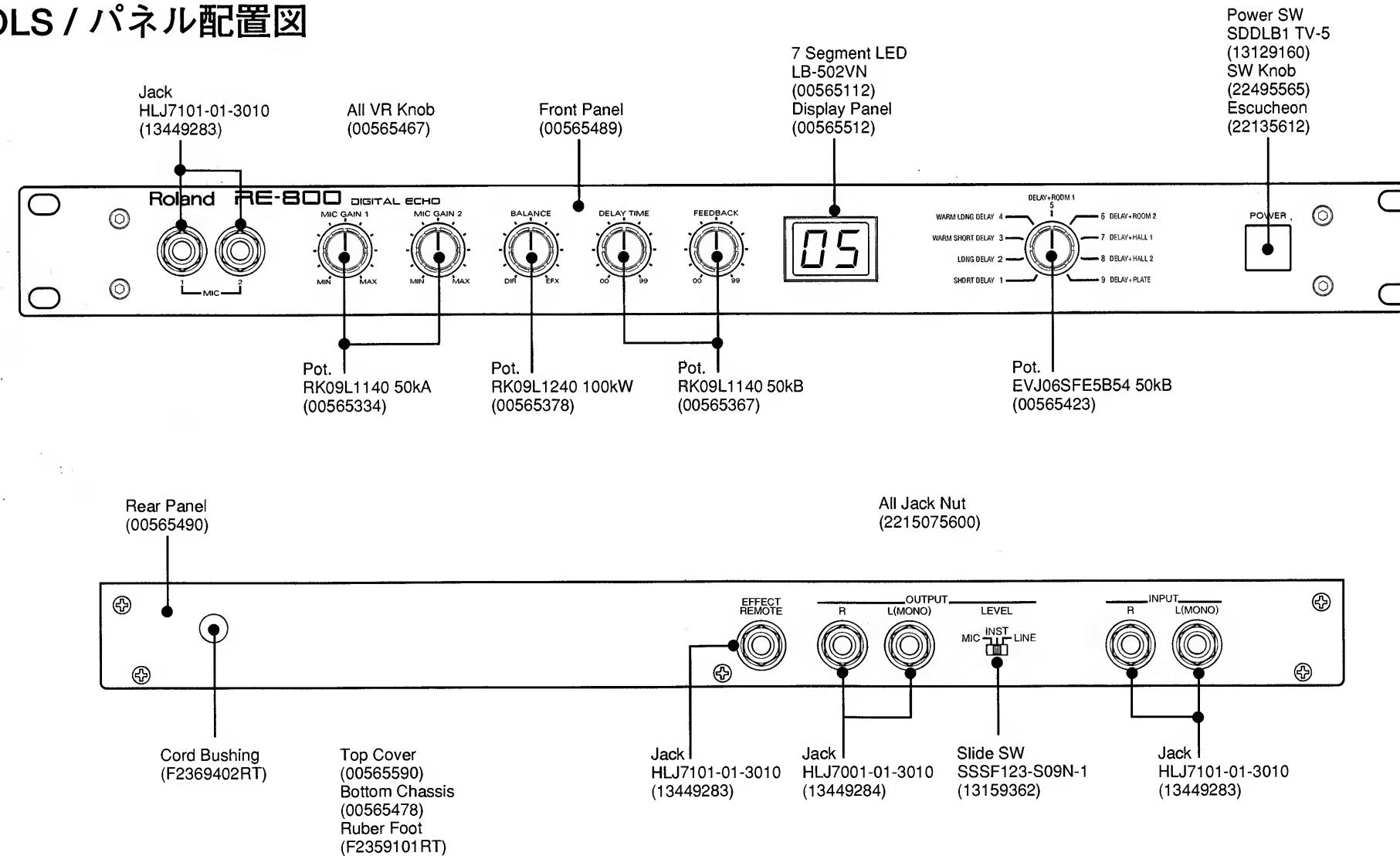
LOCATION OF CONTROLS
SPECIFICATIONS
EXPLODED VIEW
PARTS LIST
MAIN BOARD
CIRCUIT DIAGRAM
BLOCK DIAGRAM
ADJUSTMENT

目次	Page
パネル配置図	1
仕様	1
分解図	2
パーツリスト	3
基板図	4
回路図	5
ブロック図	6
調整仕様	6

## SPECIFICATIONS / 仕様

● Controls	: MIC GAIN 1 Knob, MIC GAIN 2 Knob, BALANCE Knob, DELAY TIME Knob, FEEDBACK Knob, MODE Knob, POWER Switch, LEVEL Switch
● Display	: 7 segments, 2 characters (LED)
● Jacks	: MIC Jacks 1/2, INPUT Jacks L(MONO)/R, OUTPUT Jacks L(MONO)/R, EFFECT REMOTE Jack
● Nominal Input Level	: +4dBm
● Input Impedance	: 10kΩ (MIC 1/2) 47kΩ (INPUT L/R)
● Nominal Output Level	: LINE(+4dBm)/INST(-20dBm)/MIC(-40dBm) (selectable with LEVEL Switch) (Load Impedance:100kΩ)
● Output Impedance	: 5kΩ (LEVEL Switch:LINE (+4dBm)) 1kΩ (LEVEL Switch:INST (-20dBm)) 600Ω (LEVEL Switch:MIC (-40dBm))
● AD Conversion	: 16 bit Linear 128 times Oversampling $\Delta$ $\Sigma$ modulation Adaptive Focus Method
● DA Conversion	: 16bit Linear
● Dynamic Range	: 114dB or greater (direct:1kHz) 90dB or greater (effect:1kHz)
● Power Supply	: AC 100V, AC 117V, AC 230V, AC 240V
● Power Consumption	: 6.5W (AC 100V, AC 117V, AC 230V, AC 240V)
● Dimensions	: 482(W) × 207(D) × 44(H)mm 19(W) × 8-3/16(D) × 1-3/4(H)inches
● Weight	: 2.5kg/5lbs 9oz
● Accessories	: Owner's Manual Japanese (00565167) : Owner's Manual English / Mandarin (00565156)

## LOCATION OF CONTROLS / パネル配置図



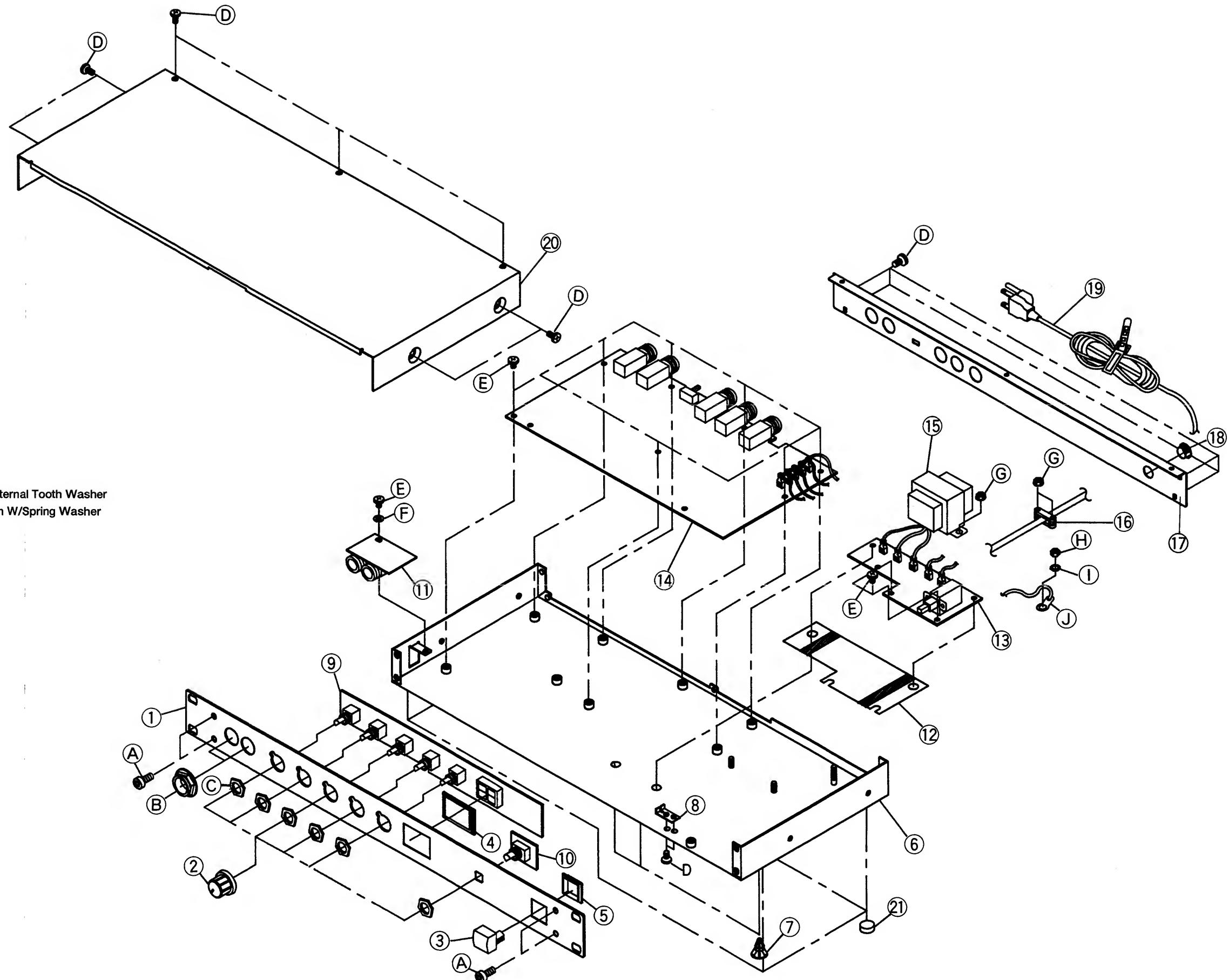
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40

## A EXPLODED VIEW / 分解図

-No.- PARTS No.- Parts Name and Description-

- ① 00565489 RE-800 FRONT PANEL
- ② 00565467 VR KNOB (black)
- ③ 22495565 SW KNOB (black)
- ④ 00565512 RE-800 DISPLAY PANEL
- ⑤ 22135612 ESCUTCHEON
- ⑥ 00565478 RE-800 BOTTOM CHASSIS
- ⑦ F2199102 PCB Joint (black)
- ⑧ 00565501 RE-800 PWB HOLDER
- ⑨ ----- LED Board ASSY
- ⑩ ----- VR Board ASSY
- ⑪ ----- JK Board ASSY
- △ ⑫ 00565534 RE-800 INSULATING SPACER
- ⑬ ----- SW Board ASSY
- ⑭ 70356151 MAIN Board ASSY
- ⑮ G2457101RT Power Transformer 100/117V
- △ ⑯ G2457102RT Power Transformer 220/240V
- ⑰ 12361410 Line Cord Strain Relief 1702B
- ⑱ 00565490 RE-800 REAR PANEL
- △ ⑲ F2369402RT Cord Bushing
- △ ⑳ G3497103RT Power Cord 100V (black)
- △ ㉑ G3497102RT Power Cord 117V (black)
- △ ㉒ G3497101RT Power Cord 230V (black)
- △ ㉓ G3497104RT Power Cord 240VA (black)
- △ ㉔ G3497105RT Power Cord 240VE (black)
- ㉕ 00565590 RE-800 TOP COVER
- ㉖ F2359101RT Rubber Foot

- Ⓐ H5029806RT 4X10 Hex Sokcket Cap Screw FeBc
- Ⓑ 2215075600 Jack Nut
- Ⓒ 40120923 M9 VR Nut
- Ⓓ 40011401 3X8 Bind Head Machine Screw W/Internal Tooth Washer
- Ⓔ 40011390 3X6 Bind head Machine Screw FeCm W/Spring Washer
- Ⓕ 40011956 M3 Washer FeCm
- Ⓖ 40011756 M3 Hex Flange Nut FeCm
- Ⓗ 40011767 M4 Hex Flange Nut FeCm
- Ⓘ 40011889 M4 External Tooth Washer FeCm
- Ⓛ 4503970200 PIN (B-6)



## PARTS LIST / パーツリスト

**SAFETY PRECAUTION:**  
The parts marked  $\Delta$  have safety-related characteristics. Use only listed parts for replacement.

**安全上の注意:**  
 $\Delta$ が付いている部品は、安全上特別な規格でつくられたものです。交換の際は、指定された部品番号以外の部品は使わないようにして下さい。

**CONSIDERATIONS ON PARTS ORDERING**  
When ordering any parts listed in the parts list, please specify the following items in the order sheet.

QTY	PART NUMBER	DESCRIPTION	MODEL NUMBER
Ex. 10	22575241	Sharp key	C-20/50
15	2247017300	Knob (orange)	DAC-15D

Failure to completely fill the above items with correct number and description will result in delayed or even undelivered replacement.

バージ発注に関するお願い

オーダーシートには必ず下記の4項目は正確に記入して下さい。(例外は除く)

必要数 パーツナンバー 品名 使用機種

例 10 22575241 Sharp key C-20/50

15 2247017300 Knob (orange) DAC-15D

もし記入漏れ、誤記等がある場合、必要部品が発送できなかったり、大幅な遅れの原因になります。御協力をお願いします。

MN ==> MAIN BOARD ASSY LD ==> LED BOARD ASSY SW ==> SW BOARD ASSY  
VR ==> VR BOARD ASSY JK ==> JACK BOARD ASSY

## CASING / ケース

0056512	RE-800 DISPLAY PANEL
0056590	RE-800 TOP COVER
00565478	RE-800 BOTTOM CHASSIS
00565489	RE-800 FRONT PANEL
00565490	RE-800 REAR PANEL
00565501	RE-800 PWB HOLDER
00565534	RE-800 INSULATING SPACER
22135612	ESCUCHEON

## KNOB, BUTTON / ツマミ、ツマミ

00565467	VR KNOB
22495565	SW KNOB

## SWITCH / スイッチ

13129160	SDDL1 TV-5	Power Switch	SW
13159362	SSSF123-S09N-1	Slide Switch	MN
<b>JACK, SOCKET / ジャック、ソケット</b>			
13449283	HLJ7101-01-3010	MIC 1/2, INPUT L/R, REMOTE	JK, MN
13449284	HLJ7001-01-3010	OUTPUT L/R	MN

## PCB ASSY / 基板完成品

70356151	MAIN BOARD ASSY	(PCB 00565134)
NOTE1 : Replacement MAIN BOARD ASSY includes the LED BOARD ASSY, SW BOARD ASSY, VR BOARD ASSY, JACK BOARD ASSY.		
注1 : 補修用MAIN BOARD ASSYは、LED BOARD ASSY, SW BOARD ASSY, VR BOARD ASSY, JACK BOARD ASSYを含みます。		

## IC

00565078	M37470M2-314SP	CPU Mask	IC11	MN
00346723	TC25SC080AU-104	DSP	IC12	MN
00565067	M5M44256BP-7	DRAM	IC14	MN
or 00341378	MSM514256B-70RS			
00347145	LC8390M	A/D Convertor	IC9	MN
00347156	$\mu$ PD6379	D/A Convertor	IC10	MN
00565089	M51951A	RESET	IC13	MN
00670801	NJM2100D	OP Amp	IC6	MN
00565812	M5220P	OP Amp	IC1	MN
15189251	M5218AP	OP Amp	IC2, 3, 4, 5, 7	MN
00565123	M66310P	LED Driver	IC19	LD
15199212	TA7805S	Regulator	IC16	MN
15199147	M5F7815L-01	Regulator	IC17	MN
15199148	M5F7915L-01	Regulator	IC18	MN

## INDUCTOR, COIL, FILTER / インダクタ、コイル、フィルター

22445240	BL02RN2-R62	EMI Filter	L1, 2, 3, 4	MN
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## TRANSISTOR / ワンジスター

15119144	2SA-1048GR	Q5	MN
15119143	2SA-1335GR	Q1, 2	MN
15129179	2SC-2458GR	Q6, 7	MN
15129210	2SC2878-A	Q3, 4	MN

## DIODE / ダイオード

15019126	1SS133		MN
15019209RT	1N4004		D15, 16, 17, 18
15039111RT	PB154M	Bridge Diode	MN
15019428	RD7.5ESB2-T	Zenner Diode	MN
00565112	LB-502VN	7Segment LED	LD
15029293RT	L-32HDSL	LED (red)	LED2, 3
or 15029198	LN-28RP		MN

## POTENTIOMETER / ポリューム

00565367	RK09L1140	50kB	VR4, 5	LD
00565334	RK09L1140	50kA	VR1, 2	LD
00565378	RK09L1140	100kW×2	VR3	LD
00565423	EVJ06SFE5B54	50kB with Detent	VR6	VR
00565101	RH0615CJ3J	Trimmer 2.2k	RT1	MN

## CRYSTAL, RESONATOR / クリスタル、発振子

00565090	AT-49 24.576MHz	Xtal	X1	MN
15299159	CST4.00MGW	Cera rock	X2	MN

## WIRING, CABLE / ワイヤリング、ケーブル

00565545	RE-800 WIRING A	3P	CN1	LD, MN
00565556	RE-800 WIRING B	9P	CN2	LD, MN
00565567	RE-800 WIRING C	9P	CN3	LD, MN
00565578	RE-800 WIRING SHIELD		MG1,2	JK, MN

## SCREW / ネジ類

40011390	3×6mm Binding head FeCm Spring Washer		
40011401	3×8mm Binding head FeBc Internal Tooth Washer		
H5019410ZL	3×20mm Binding head FeBc Spring Washer		
H5029806RT	4×10mm Hex Sokcket Cap Screw FeBc		
40011945	M4×0.45 Internal Tooth Washer FeBc		
40011756	M3 Hex Flange Nut FeCm		
2215075600	JACK NUT		
-----	M9 VR Nut		
40011956	M3 Washer FeCm		
40011767	M4 Hex Flange Nut FeCm		
40011889	M4 External Tooth Washer		

## MISCELLANEOUS / その他

F2359101RT	Rubber Foot	Heatsink
4503970200	PIN (B-6)	
H5039701RT	1741BS-2	Quick Slide Terminal
12469158	PC2116-7-PT	Heatsink
00565145	RE-800 Packing Case	
G2647101RT	RE-1000 Pad	

## ACCESSORIES / 標準付属品

00565167	RE-800 MANUAL (Japanese)	

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40

**MAIN BOARD**

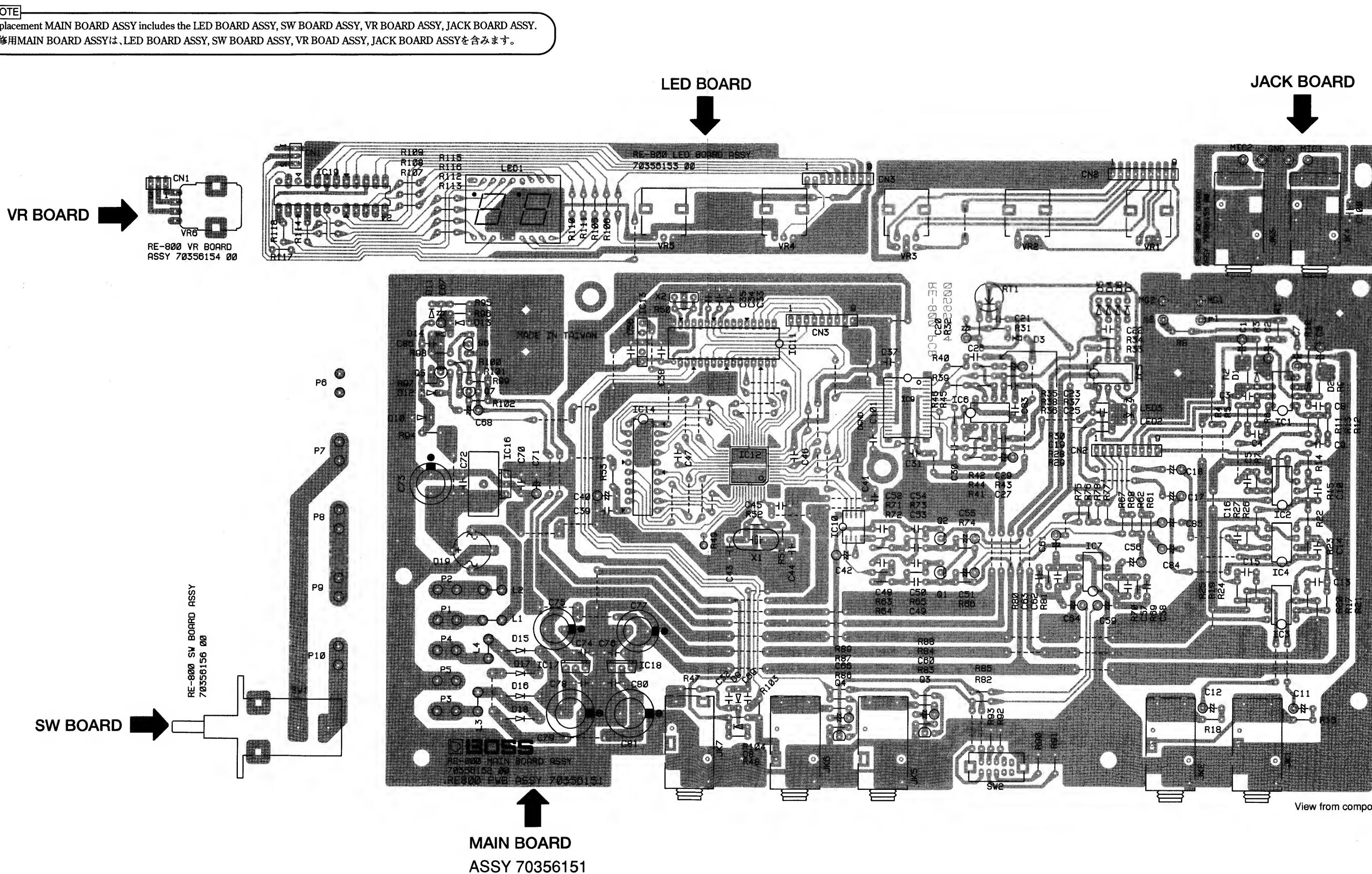
ASSY 70356151

(PWB 00565134)

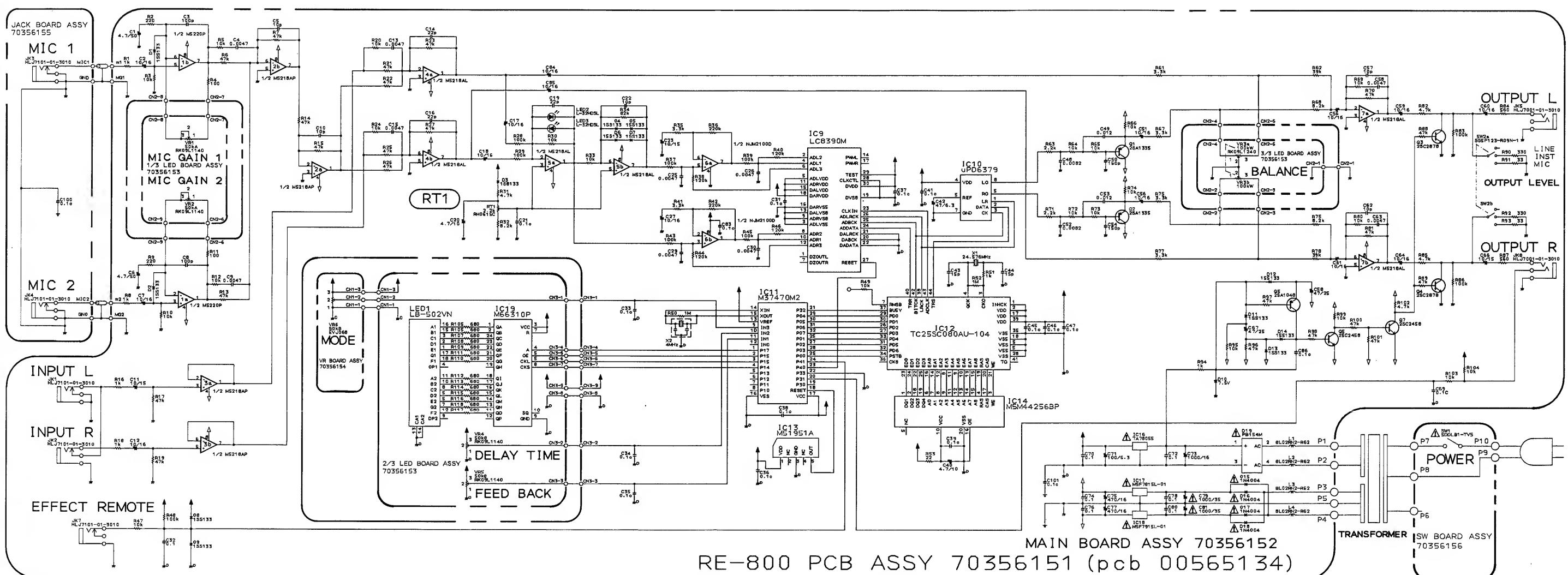
NOTE

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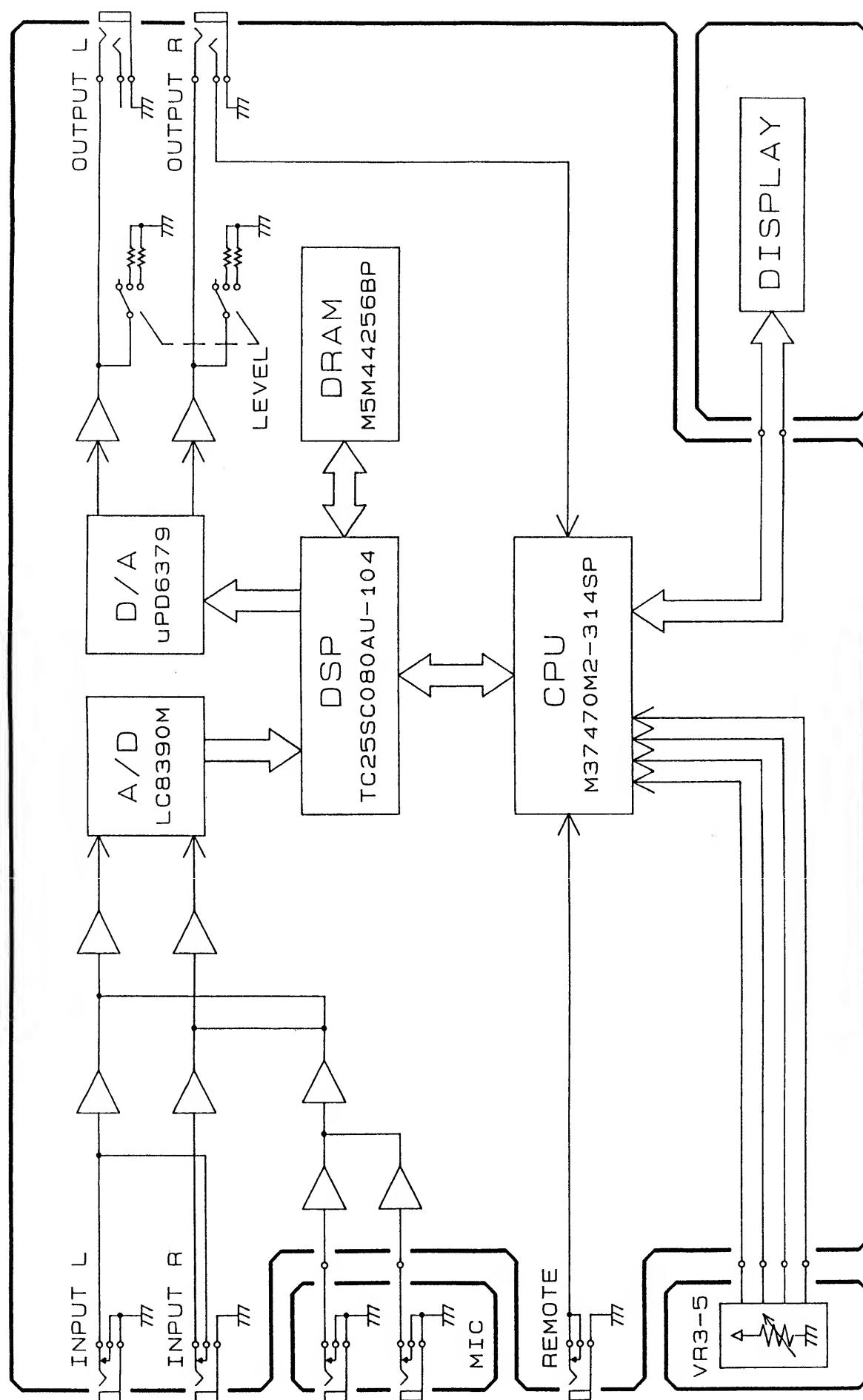


## CIRCUIT DIAGRAM / 回路図



RE-800 PCB ASSY 70356151 (pcb 00565134)

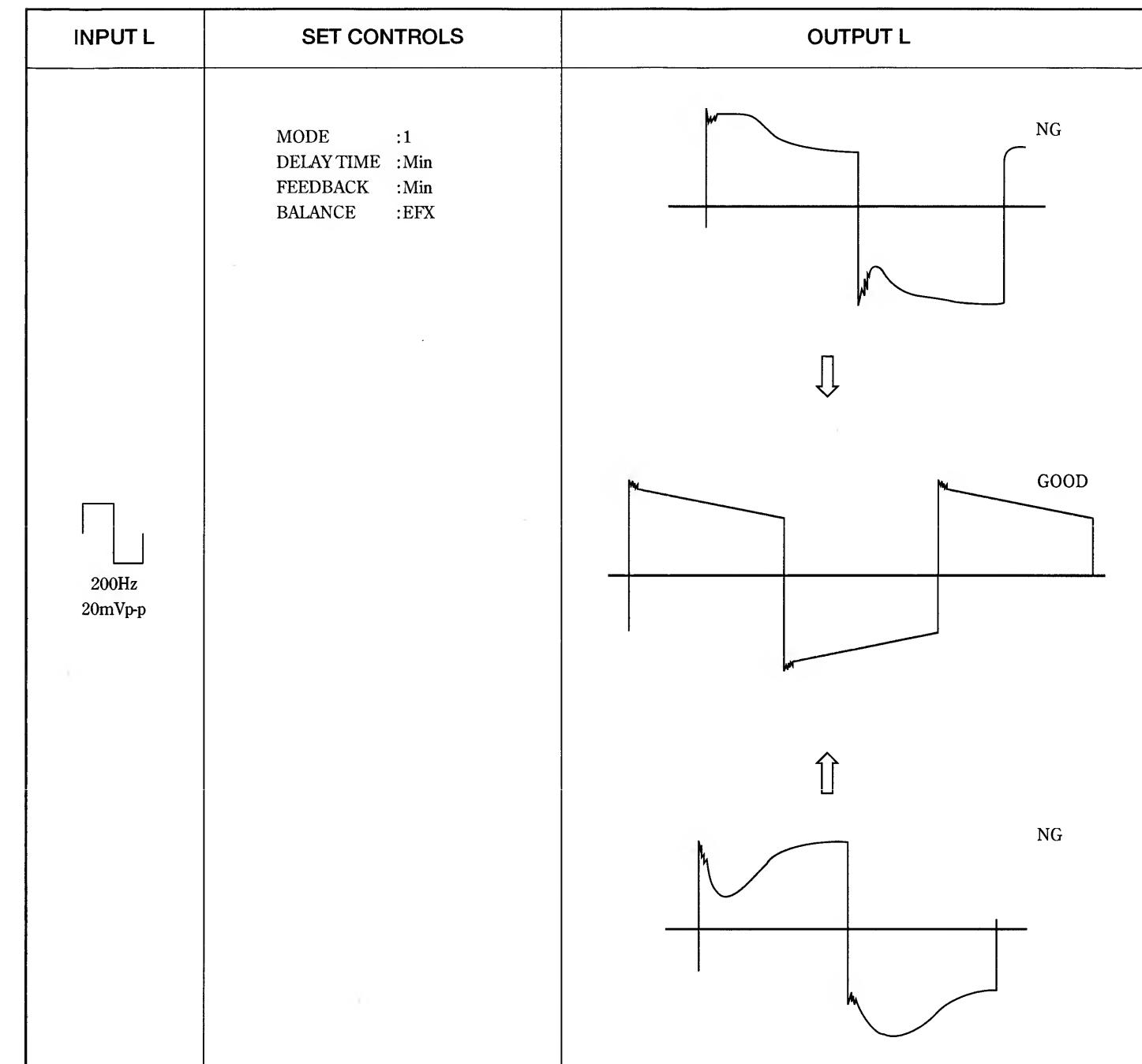
## BLOCK DIAGRAM / ブロック図



## ADJUSTMENT

## Check OUTPUT Waveform

1. Feed the signal to INPUT L of the RE-800.
2. Connect the scope to OUTPUT L of the RE-800.
3. Set the controls and adjust RT1 on MT Board for the waveform as shown below.



## 調整仕様

## 出力波形のチェック

1. INPUTにオーディオ発振器を接続します。
2. OUTPUT Lにオシロスコープを接続します。
3. セッティングして下図のような波形になるようにRT1を調節します。